RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	<u> 10/517,544</u>
Source:	PUTIO
Date Processed by STIC:	12/20/04

ENTERED



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RAW SEQUENCE LISTING DATE: 12/20/2004
PATENT APPLICATION: US/10/517,544 TIME: 15:03:49

Input Set : A:\1336(PCT)SEQUENCE.txt
Output Set: N:\CRF4\12202004\J517544.raw

```
3 <110> APPLICANT: RIKEN
             KABUSHIKI KAISHA DNAFORM
      6 <120> TITLE OF INVENTION: Method for utilizing the 5'end of mRNA for cloning and
analysis
      8 <130> FILE REFERENCE: 1336 (PCT)
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/517,544
C--> 10 <141> CURRENT FILING DATE: 2004-12-10
     10 <150> PRIOR APPLICATION NUMBER: JP 2002-171851
     11 <151> PRIOR FILING DATE: 2002-06-12
     13 <150> PRIOR APPLICATION NUMBER: JP 2002-235294
     14 <151> PRIOR FILING DATE: 2002-08-12
     16 <160> NUMBER OF SEQ ID NOS: 77
     18 <170> SOFTWARE: PatentIn version 3.1
     20 <210> SEQ ID NO: 1
    21 <211> LENGTH: 74
     22 <212> TYPE: DNA
     23 <213> ORGANISM: Artificial
     25 <220> FEATURE:
     26 <223> OTHER INFORMATION: First strand cDNA primer
     28 <220> FEATURE:
     29 <221> NAME/KEY: misc feature
     30 <222> LOCATION: (73)..(73)
     31 <223> OTHER INFORMATION: "v" is A, C or G
     34 <220> FEATURE:
     35 <221> NAME/KEY: misc_feature
     36 <222> LOCATION: (74)..(74)
     37 <223> OTHER INFORMATION: "n" is any nucleotide
     40 <400> SEQUENCE: 1
     41 gagagagaga aaggateetg ceattteatt acetetttet eegeaceega catagatttt
                                                                               60
W--> 43 ttttttttt ttvn
                                                                               74
     46 <210> SEO ID NO: 2
     47 <211> LENGTH: 60
     48 <212> TYPE: DNA
     49 <213> ORGANISM: Artificial
    51 <220> FEATURE:
    52 <223> OTHER INFORMATION: Upper oligonucleotide GN5
    54 <220> FEATURE:
    55 <221> NAME/KEY: misc_feature
    56 <222> LOCATION: (56)..(60)
    57 <223> OTHER INFORMATION: "n" is any nucleotide
    60 <400> SEQUENCE: 2
                                                                               60
W--> 61 agagagagac ctcgagtaac tataacggtc ctaaggtagc gacctaggtc cgacgnnnnn
    64 <210> SEQ ID NO: 3
     65 <211> LENGTH: 60
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RAW SEQUENCE LISTINGPATENT APPLICATION: **US/10/517,544**DATE: 12/20/2004 TIME: 15:03:49

Input Set : A:\1336(PCT)SEQUENCE.txt
Output Set: N:\CRF4\12202004\J517544.raw

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66 <212> TYPE: DNA
     67 <213> ORGANISM: Artificial
     69 <220> FEATURE:
     70 <223> OTHER INFORMATION: Upper oligonucleotide N6
     72 <220> FEATURE:
     73 <221> NAME/KEY: misc feature
     74 <222> LOCATION: (55)..(60)
     75 <223> OTHER INFORMATION: "n" is any nucleotide
     78 <400> SEQUENCE: 3
W--> 79 agagagagac ctcgagtaac tataacggtc ctaaggtagc gacctaggtc cgacnnnnnn
                                                                                60
     82 <210> SEQ ID NO: 4
     83 <211> LENGTH: 54
     84 <212> TYPE: DNA
     85 <213> ORGANISM: Artificial
     87 <220> FEATURE:
     88 <223> OTHER INFORMATION: Lower oligonucleotide
     90 <400> SEQUENCE: 4
     91 gtcggaccta ggtcgctacc ttaggaccgt tatagttact cgaggtctct ctct
                                                                                54
     94 <210> SEQ ID NO: 5
     95 <211> LENGTH: 55
     96 <212> TYPE: DNA
     97 <213> ORGANISM: Artificial
     99 <220> FEATURE:
     100 <223> OTHER INFORMATION: primer
     102 <400> SEQUENCE: 5
     103 agagagagac ctcgagtaac tataacggtc ctaaggtagc gacctaggtc cgacg
                                                                                 55
     106 <210> SEO ID NO: 6
     107 <211> LENGTH: 45
     108 <212> TYPE: DNA
     109 <213> ORGANISM: Artificial
     111 <220> FEATURE:
     112 <223> OTHER INFORMATION: linker
     114 <400> SEQUENCE: 6
     115 tctagatcag gactcttcta tagtgtcacc taaagtctct ctctc
                                                                                 45
     118 <210> SEQ ID NO: 7
     119 <211> LENGTH: 47
     120 <212> TYPE: DNA
     121 <213> ORGANISM: Artificial
     123 <220> FEATURE:
     124 <223> OTHER INFORMATION: linker
     126 <220> FEATURE:
     127 <221> NAME/KEY: misc feature
     128 <222> LOCATION: (46)..(47)
     129 <223> OTHER INFORMATION: "n" is any nucleotide
     132 <400> SEQUENCE: 7
W--> 133 gagagagaga ctttaggtga cactatagaa gagtcctgat ctagann
                                                                                 47
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136 <210> SEQ ID NO: 8 137 <211> LENGTH: 25 138 <212> TYPE: DNA

RAW SEQUENCE LISTING DATE: 12/20/2004 PATENT APPLICATION: US/10/517,544 TIME: 15:03:49

Input Set : A:\1336(PCT)SEQUENCE.txt
Output Set: N:\CRF4\12202004\J517544.raw

```
139 <213> ORGANISM: Artificial
     141 <220> FEATURE:
     142 <223> OTHER INFORMATION: Primer 1 (uni-PCR)
     144 <400> SEQUENCE: 8
     145 gagagagaga ctttaggtga cacta
                                                                                 25
     148 <210> SEQ ID NO: 9
     149 <211> LENGTH: 25
     150 <212> TYPE: DNA
     151 <213> ORGANISM: Artificial
     153 <220> FEATURE:
     154 <223> OTHER INFORMATION: Primer 2 (MmeI-PCR)
     156 <400> SEOUENCE: 9
     157 agagagagac ctcgagtaac tataa
                                                                                 25
     160 <210> SEQ ID NO: 10
     161 <211> LENGTH: 44
     162 <212> TYPE: DNA
     163 <213> ORGANISM: Artificial
     165 <220> FEATURE:
     166 <223> OTHER INFORMATION: first strand oligo-dT primer
     168 <220> FEATURE:
     169 <221> NAME/KEY: misc feature
     170 <222> LOCATION: (43)..(43)
     171 <223> OTHER INFORMATION: "v" is A, C or G
     174 <220> FEATURE:
     175 <221> NAME/KEY: misc feature
     176 <222> LOCATION: (44)..(44)
     177 <223> OTHER INFORMATION: "n" is any nucleotide
     180 <400> SEQUENCE: 10
W--> 181 gagagagag ggatccttct ggagagtttt ttttttttt ttvn
                                                                                 44
     184 <210> SEQ ID NO: 11
     185 <211> LENGTH: 45
     186 <212> TYPE: DNA
     187 <213> ORGANISM: Artificial
     189 <220> FEATURE:
     190 <223> OTHER INFORMATION: Oligonucleotide Bg-Gsu-GN5
     192 <220> FEATURE:
     193 <221> NAME/KEY: misc feature
     194 <222> LOCATION: (4-1)..(4-5)
     195 <223> OTHER INFORMATION: "n" is any nucleotide
     198 <400> SEQUENCE: 11
W--> 199 agagagaga ctaggcttaa taggtgacta gatctggagg nnnnn
                                                                                 45
     202 <210> SEQ ID NO: 12
     203 <211> LENGTH: 45
    204 <212> TYPE: DNA
    205 <213> ORGANISM: Artificial
    207 <220> FEATURE:
    208 <223> OTHER INFORMATION: Oligonucleotide Bq-Gsu-N6
    210 <220> FEATURE:
    211 <221> NAME/KEY: misc feature
```

RAW SEQUENCE LISTING DATE: 12/20/2004 RAW SEQUENCE LISTING DATE: 12/20/20 PATENT APPLICATION: US/10/517,544 TIME: 15:03:49 Input Set : A:\1336(PCT)SEQUENCE.txt Output Set: N:\CRF4\12202004\J517544.raw 212 <222> LOCATION: (40)..(45) 213 <223> OTHER INFORMATION: "n" is any nucleotide 216 <400> SEQUENCE: 12 45 W--> 217 aqaqaqagaa ctaggcttaa taggtgacta gatctggagn nnnnn 220 <210> SEQ ID NO: 13 221 <211> LENGTH: 39 222 <212> TYPE: DNA 223 <213> ORGANISM: Artificial 225 <220> FEATURE: 226 <223> OTHER INFORMATION: Oligonucleotide Bg-Gsu-down 228 <400> SEOUENCE: 13 229 ctggagatct agtcacctat taagcctagt tctctctct 39 232 <210> SEQ ID NO: 14 233 <211> LENGTH: 47 234 <212> TYPE: DNA - 235 <213> ORGANISM: Artificial 237 <220> FEATURE: 238 <223> OTHER INFORMATION: Oligonucleotide Bg-Mme-GN5 240 <220> FEATURE: 241 <221> NAME/KEY: misc_feature 242 <222> LOCATION: (43)..(47) 243 <223> OTHER INFORMATION: "n" is any nucleotide 246 <220> FEATURE: 247 <221> NAME/KEY: misc feature 248 <222> LOCATION: (39)..(39) 249 <223> OTHER INFORMATION: "r" is G or A 252 <400> SEQUENCE: 14 47 W--> 253 agagagagaa ctaggcttaa taggtgacta gatcttccra cgnnnnn 256 <210> SEQ ID NO: 15 257 <211> LENGTH: 47 258 <212> TYPE: DNA 259 <213> ORGANISM: Artificial 261 <220> FEATURE: 262 <223> OTHER INFORMATION: Oligonucleotide Bg-Mme-N6 264 <220> FEATURE: 265 <221> NAME/KEY: misc_feature 266 <222> LOCATION: (42)..(47) 267 <223> OTHER INFORMATION: "n" is any nucleotide 270 <220> FEATURE: 271 <221> NAME/KEY: misc feature 272 <222> LOCATION: (39)..(39) 273 <223> OTHER INFORMATION: "r" is G or A 276 <400> SEQUENCE: 15 W--> 277 agagagaga ctaggcttaa taggtgacta gatcttccra cnnnnnn 47 280 <210> SEQ ID NO: 16 281 <211> LENGTH: 40 282 <212> TYPE: DNA 283 <213> ORGANISM: Artificial

285 <220> FEATURE:

RAW SEQUENCE LISTING DATE: 12/20/2004 PATENT APPLICATION: US/10/517,544 TIME: 15:03:49

Input Set : A:\1336(PCT)SEQUENCE.txt
Output Set: N:\CRF4\12202004\J517544.raw

```
286 <223> OTHER INFORMATION: Oligonucleotide Bg-Mme-down
     288 <220> FEATURE:
     289 <221> NAME/KEY: misc feature
     290 <222> LOCATION: (3)..(3)
     291 <223> OTHER INFORMATION: "y" is C or T
     294 <400> SEQUENCE: 16
     295 gtyggagatc tagtcaccta ttaagcctag ttctctctct
                                                                                 40
     298 <210> SEO ID NO: 17
     299 <211> LENGTH: 47
     300 <212> TYPE: DNA
     301 <213> ORGANISM: Artificial
     303 <220> FEATURE:
     304 <223> OTHER INFORMATION: oligonucleotide
     306 <220> FEATURE:
     307 <221> NAME/KEY: misc_feature
     308 <222> LOCATION: (46)..(47)
     309 <223> OTHER INFORMATION: "n" is any nucleotide
     312 <400> SEQUENCE: 17
W--> 313 gagagaga ctttaggtga cactatagaa gagtcctgag aattcnn
                                                                                 47
     316 <210> SEQ ID NO: 18
     317 <211> LENGTH: 45
     318 <212> TYPE: DNA
     319 <213> ORGANISM: Artificial
     321 <220> FEATURE:
     322 <223> OTHER INFORMATION: oligonucleotide
     324 <400> SEOUENCE: 18
     325 gaatteteag gaetetteta tagtgteace taaagtetet etete
                                                                                 45
     328 <210> SEQ ID NO: 19
     329 <211> LENGTH: 49
     330 <212> TYPE: DNA
     331 <213> ORGANISM: Artificial
     333 <220> FEATURE:
     334 <223> OTHER INFORMATION: linker
     336 <220> FEATURE:
     337 <221> NAME/KEY: misc_feature
     338 <222> LOCATION: (45)-...(49)
     339 <223> OTHER INFORMATION: "n" is any nucleotide
     342 <400> SEQUENCE: 19
W--> 343 agagagaga cttagatgag agtgactcga gcctaggtcc aacgnnnnn
                                                                                 49
     346 <210> SEQ ID NO: 20
     347 <211> LENGTH: 49
     348 <212> TYPE: DNA
     349 <213> ORGANISM: Artificial
     351 <220> FEATURE:
     352 <223> OTHER INFORMATION: linker
     354 <220> FEATURE:
     355 <221> NAME/KEY: misc feature
     356 <222> LOCATION: (44)..(49)
     357 <223> OTHER INFORMATION: "n" is any nucleotide
```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 12/20/2004 PATENT APPLICATION: US/10/517,544 TIME: 15:03:50

Input Set : A:\1336(PCT)SEQUENCE.txt
Output Set: N:\CRF4\12202004\J517544.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

```
Seq#:1; N Pos. 7/4
Seg#:2; N Pos. 56,57,58,59,60
Seq#:3; N Pos. 55,56,57,58,59,60
Seq#:7; N Pos. 46,47-
Seq#:10; N Pos -44-
Seq#:11; N Pos. 41,42,43,44,45-
Seq#:12; N Pos.-40-41-42-43-44,45
Seq#:14; N Pos. 43,44,45,46,47
Seq#:15; N Pos. 42,43,44,45,46,47
Seq#:17; N Pos. 46,47
Seq#:19; N Pos. 45,46,47,48,49
Seq#:20; N Pos. 44,45,46,47,48,49
Seq#:28; N Pos. 432,436,456
Seq#:29; N Pos. 1
Seq#:30; N Pos. 1,20
Seq#:73; N Pos. 1
```

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27 Seq#:29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52 Seq#:53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/517,544 TIME: 15:03:50

DATE: 12/20/2004

Input Set: A:\1336(PCT)SEQUENCE.txt
Output Set: N:\CRF4\12202004\J517544.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:43 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:60 L:61 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0 L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0 L:133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0 L:181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0 L:199 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0 L:217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0 L:253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0 L:277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0 L:313 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0 L:343 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0 L:361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0 L:486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:420 L:508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0 L:532 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0 L:1054 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:0 L:1091 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:76, Line#:1089